Many equipment items at a signal facility operate using separate real-time clocks. Over the course of several weeks, these clocks may vary substantially. The problem of un-synchronized clocks is particularly troublesome in accident investigations. Worse yet, it's not an uncommon practice to send a technician to each site, just to correct the clocks.





MICRO-AIDE CORPORATION

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MODE 1

Time Source: GPS

Time/Date Control: RS-232 connections using ASCII commands

User Interface: optional local PC connection or front panel

SNTP: not available

Device Port Access: available using local PC



PC - optional

straight-through cables

HCA-1

HXP-3

TARGET DEVICES

EC-4

EC-5

ML-II

VHLC

MICRO-AIDE

CWR

VDL

PSM

RS-232

DCE/DTE

SNTP Time

Clients

Ethernet

LAN

GCS-2

SNTP

MODE 2 - REQUIRES ETHERNET PORT

Time Source: GPS

Time/Date Control: RS-232 connections using ASCII commands and SNTP multicast

User Interface: optional local or remote PC connection or front panel

SNTP: operates as Time Server

Device Port Access: available using local or remote PC



Time Source: SNTP Time Server

Time/Date Control: RS-232 connections using ASCII commands

User Interface: optional local or remote PC connection or front panel

SNTP: operates as Time Client

Device Port Access: available using local or remote PC



MODE 4 - REQUIRES ETHERNET PORT

Time Source: GPS or SNTP Time Server (not shown)

Time/Date Control: RS-232 connections using ASCII commands, except when accessing selected Target Device

User Interface: optional local or remote PC connection or front panel

SNTP: operates as Time Server or Client

Device Port Access: available using local or remote PC



